

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/954,994	09/18/2001	Sven K. Esche	SIT-0106	2909
26259 LICATA & TY	7590 12/27/200 RRELL P.C.	6	EXAMINER	
66 E. MAIN STREET MARLTON, NJ 08053			BURCH, MELODY M	
			ART UNIT	PAPER NUMBER
			3683	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		12/27/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)
		09/954,994	ESCHE ET AL.
	Office Action Summary	Examiner	Art Unit
		Melody M. Burch	3683
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address
A SH WHI(- Exte after - If NO - Failu Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period warre to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
· —	Responsive to communication(s) filed on <u>20 Sec</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposit	ion of Claims		
5)□ 6)⊠	Claim(s) <u>1 and 2</u> is/are pending in the applicating 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-2</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.	
Applicati	ion Papers		
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority (under 35 U.S.C. § 119		
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive In (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachmen	t(s)		
1) Notic 2) Notic 3) Inform	re of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/20/06 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 3. Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by JP-2000291725 (JP'725).

Re: claim 2. JP'725 shows in figure 2 a device for adaptive vibration attenuation comprising a passive isolator 14a,18,22,28 with a nonlinear force deflection characteristic as disclosed in line 3 of the novelty section of the English abstract wherein the passive isolator comprises a mechanical actuator 14a,14b,18,22,28 which varies an operating point along the force deflection characteristic and is comprised of a

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coiled spring 28, a load supporting rod 27 disposed through the center of the coiled spring 28 as shown in figure 2, a non-linear spring 14a,14b and a means 22 for externally controlling a preload to the coiled spring whereby as the coiled spring force is varied, the load supporting rod transfers pressure to the non-linear spring via elements 12, 16, and 28 as shown.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6361031 to Shores et al. in view of US Patent 5700000 to Wolf et al.

Re: claim 1. Shores et al. show in figure 1 a device for adaptive vibration attenuation comprising a passive isolator 22 with a force-deflection characteristic and an operating point wherein the passive isolator comprises a pneumatic actuator 44,62 and the vacuum actuated valves discussed in col. 2 lines 37-38 which varies the operating point of the isolator along the force-deflection characteristic wherein the pneumatic actuator has disposed along the central longitudinal axis at least one upper pressure chamber 44, a spring 22,14,15, and one lower pressure chamber 26 independent of the upper pressure chamber wherein air pressure in the at least one upper pressure chamber can be externally controlled as disclosed in col. 2 lines 31-39 and wherein the natural frequency of the system is regulated by applying pressure to the upper pressure

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Examiner notes that "upper" and "lower" are relative terms and that for examining purposes the upper portions of the mount in figure 1 are shown in the area of element 14 and the lower portions of the mount are shown in the area of element 16.

Shores et al. do not disclose that the force-deflection characteristic of the passive isolator 5 is non-linear or that the passive isolator or spring 22 is a non-linear spring.

Wolf et al. teach in figure 6 and in col. 4 lines 30-47 the use of a vibration attenuation device comprising a passive isolator or spring 2 with a non-linear force-deflection characteristic or being characterized as a non-linear spring.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the passive isolator of Shores et al. to have been constructed such that it had a non-linear force-deflection characteristic, as taught by Wolf et al., in order to provide a means of allowing good damping and preventing shaking even at large amplitudes of perturbation as taught by Wolf et al. in col. 4 lines 43-45.

Response to Arguments

6. Applicant's arguments filed 9/20/06 have been fully considered but they are not persuasive. With regards to the use of the JP'725 reference, Examiner maintains that the load supporting rod 18 is clearly shown to be disposed through the center of the coiled spring 28. Please see figure 2 of JP'725. With regards to the rejections using Shores et al., as modified, Examiner notes that in a new interpretation the spring is represented by elements 14, 15, and 22 the same way in which the spring of the instant

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invention is made of elements 28, 30, and 34 (see the paragraph at the beginning of pg. 4 line 29 in the specification amendment filed 6/23/04). In light of the new interpretation the spring, particularly portion 14 of the spring, is now disposed along the central longitudinal axis. Accordingly, the rejections have been maintained.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melody M. Burch whose telephone number is 571-272-7114. The examiner can normally be reached on Monday-Friday (6:30 AM-3:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan can be reached on 571-272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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December 20, 2006

Melody M. Burch
Primary Examiner
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